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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,799	09/10/2003	David Reed	5396P007	5235

8791 7590 03/23/2006

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EXAMINER


CHERRY, EUNCHA P

ART UNIT PAPER NUMBER

2872

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/659,799	Applicant(s) REED, DAVID 	
	Examiner EUNCHA P. CHERRY	Art Unit 2872	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-62 is/are pending in the application.
- 4a) Of the above claim(s) 1-9 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10, 11 and 15-62 is/are rejected.
- 7) ☒ Claim(s) 12-14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>4/12/04, 10/24/05</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of species 3 in the reply filed on 1/3/06 is acknowledged. However, applicant amended non-elected claims to include the feature, corner cube pattern, from species 3. Therefore, claims 10-62 are examined together on the merit and the rejection is as follows. Also, it is noted that claims 1-9 are withdrawn from the further consideration due to the previous restriction requirement.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 10, 11 and 15-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Fujii et al (US 6,568,931 B2).

Fujii et al discloses a roller stack (Fig. 1) for forming a corner cube pattern (Figs. 8, 9) in a surface of a film (11), the roller stack comprising: a first (chill) roller (14); and a

Art Unit: 2872

second (chill) roller (13), the second roller having a cylindrical corner cube pattern to roll over the surface of the film and form the corner cube-pattern therein (column 6, lines 20-25), the second roller including, a rotatable shaft (Fig. 2, 29 and column 6, line 65), and one or more rings coupled in parallel together to the shaft (see Fig. 4), an outer edge of each of the one or more rings having a respective subpattern (each row is considered to be subpattern) aligned together to form the cylindrical corner cube pattern and the film between the first roller and the second roller, the second roller to press against the surface of the film to form the corner cube pattern therein (column 6, lines 1-11), a third roller to cool the film (18A, 18B and column 8, lines 14-16), and a frame to support the first, second and third rollers in parallel together (inherent by Fig. 1).

A manufacturing system (Fig. 1) comprising an extruder to receive solid raw materials (11), an extrusion die to receive the liquefied raw materials to further flatten (12) into a thin wide sheet (column 7, lines 63-67), a pair of nip rollers to pull on the thin wide sheet of solid raw materials to convey the thin wide sheet with the corner cube pattern (14, 13) and a windup roller (16).

Art Unit: 2872

The article is used as a reflector (see column 1, lines 15-17).

The optical film rolled up into a roll (Fig. 1, end of 11A), the optical film including a first side having a plurality of columns of full corner cubes each adjacent column of full corner cubes having a pattern offset from the next and a groove (see Fig. 6), and a second side having an adhesive to adhere to a surface (by roller 16). The optical region further has M grooves and N columns (see Fig. 6). The optical material is a thermoplastic (column 6, line 3). Each full corner cube includes a base, a head, a tail and three reflective surfaces joined at an apex (see one pyramid shape cube corner element in Fig. 6). Each full corner cube is a male corner cube and shaped as a symmetric (see one pyramid in Fig. 6).

The methods of manufacturing the article comprising the steps of providing and rolling are inherently met by the disclosure of the prior art.

Allowable Subject Matter

4. Claims 12-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2872

5. The following is a statement of reasons for the indication of allowable subject matter: claims are allowable at least for the reason that the prior art does not teach or reasonably suggest the first bearing and the second bearing so as to support the second roller, the first bearing located near a first end and the second bearing located near a second end of the rotatable shaft as set forth in the claimed combination.

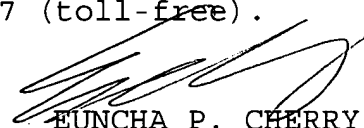
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EUNCHA P. CHERRY whose telephone number is 571-272-2310. The examiner can normally be reached on M-F 6:30-4:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DREW DUNN can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2872

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



EUNCHA P. CHERRY
Primary Examiner
Art Unit 2872

3/20/06